

## Code Sheet



### Turn Left

Robot turns on the spot, 90° to the left



### Forward

Robot moves one square forward



### Turn Right

Robot turns on the spot, 90° to the right



### Weeding

Removes weeds (little red stars on map).

Action: \_\_\_\_\_

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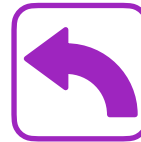


### Weeding

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Action: \_\_\_\_\_

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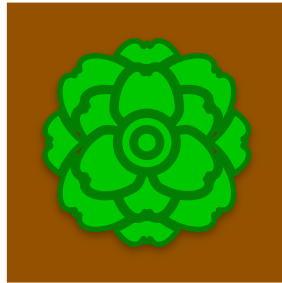


### Weeding

Removes weeds (little red stars on map).

Action: \_\_\_\_\_

# Field Map #1 - Worksheet



Using the spaces below, draw in arrows and stars that represent each action the robot must take.

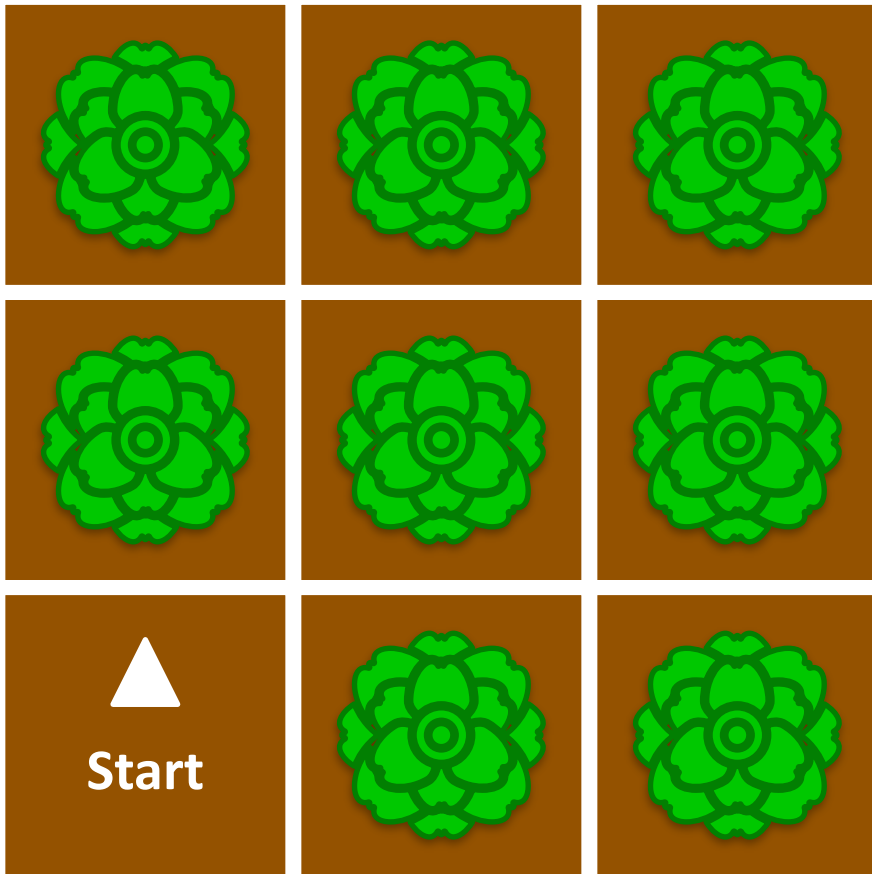
See if you can code your robot to take care of all the crops using only **4 steps!**

Step 1	Step 2	Step 3
Step 4	Step 5	Step 6
Step 7	Step 8	Step 9

# Field Map #2 - Worksheet

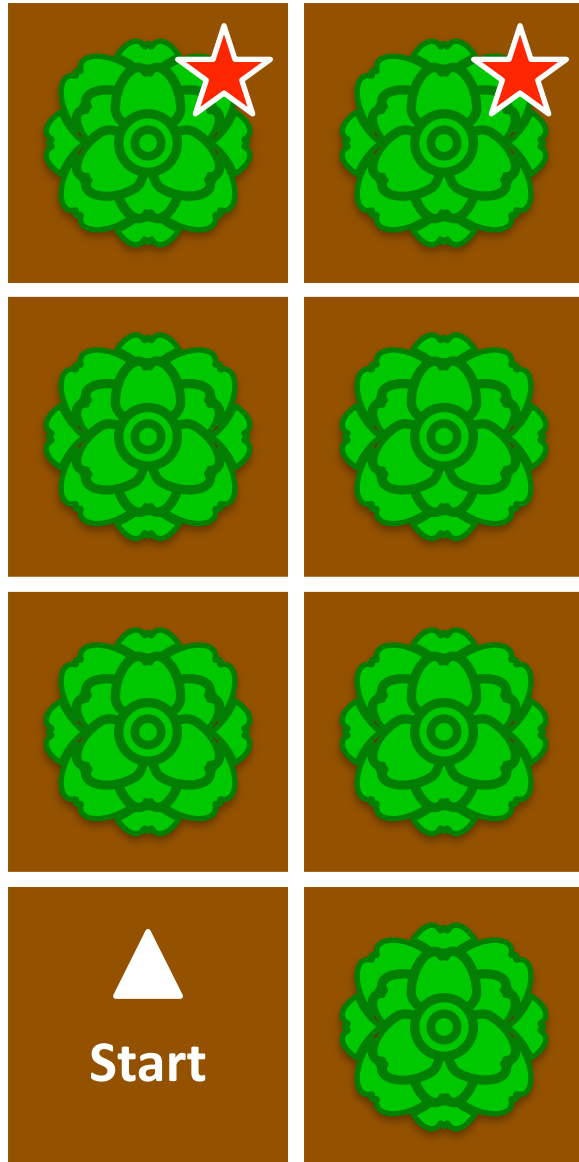
Using the spaces below, draw in arrows and stars that represent each action the robot must take.

See if you can code your robot to take care of all the crops using only **12 steps!**



Step 1	Step 2	Step 3
Step 4	Step 5	Step 6
Step 7	Step 8	Step 9
Step 10	Step 11	Step 12
Step 13	Step 14	Step 15

# Field Map #3 - Worksheet

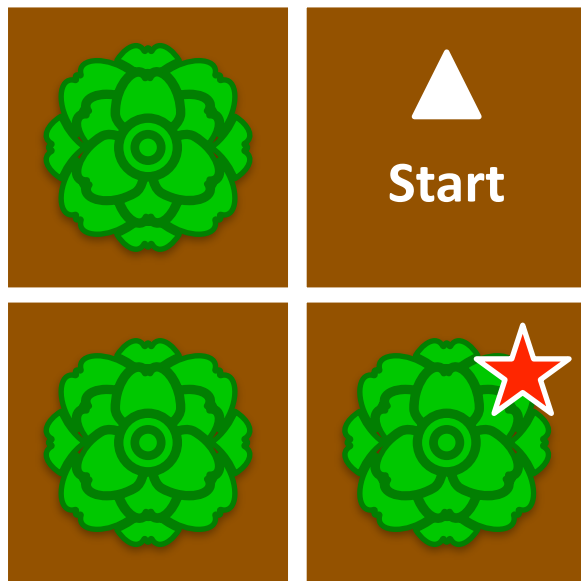


Using the spaces below, draw in arrows and stars that represent each action the robot must take.








See if you can code your robot to take care of all the crops using only **11 steps!**

Step 1	Step 2	Step 3
Step 4	Step 5	Step 6
Step 7	Step 8	Step 9
Step 10	Step 11	Step 12
Step 13	Step 14	Step 15

# Field Map Debug #1

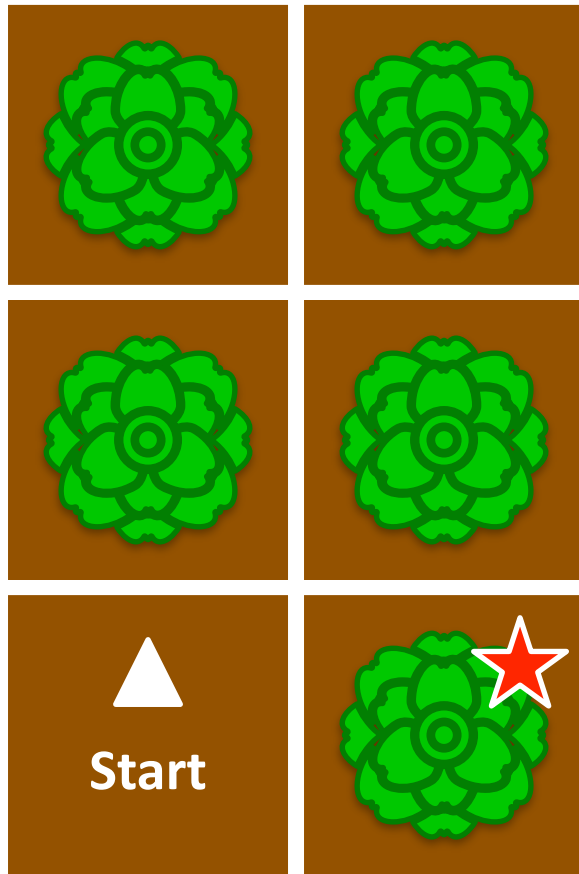


## Buggy Code











Step 1 	Step 2 	Step 3 
Step 4 	Step 5 	Step 6 
Step 7 		

1. **Identify:** Circle the step that has the bug
2. **Fix:** To fix this code, replace step number \_\_\_\_ with a (circle one) left arrow / forward / right arrow / star

# Field Map Debug #2

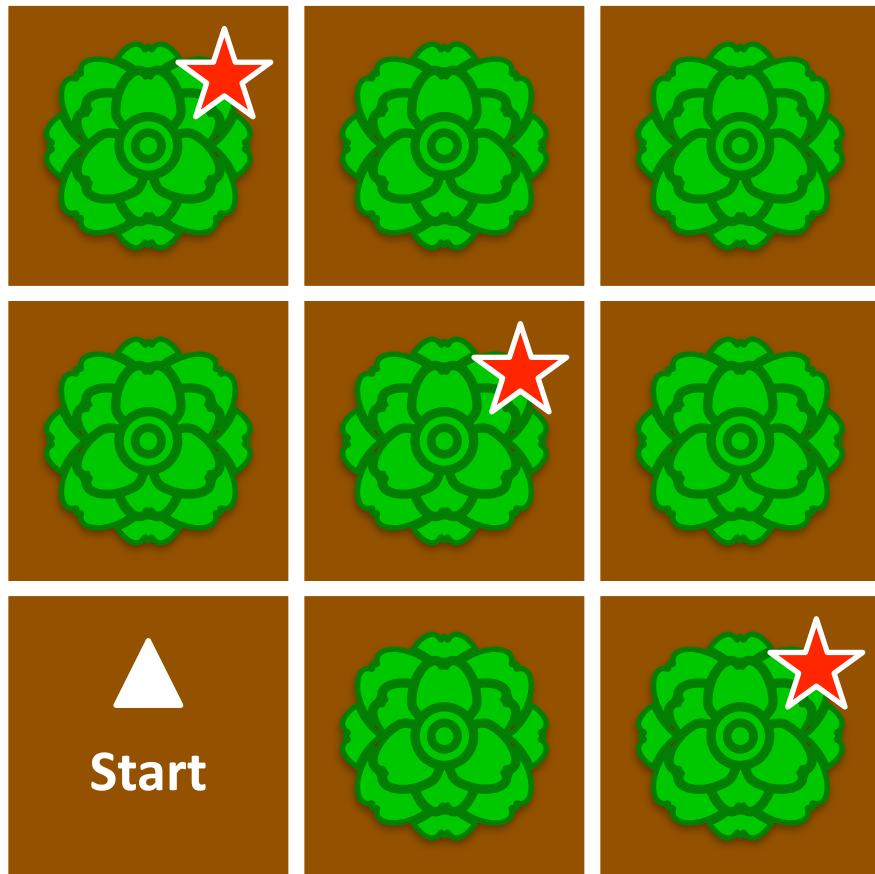


## Possible Solution
















Step 1 	Step 2 	Step 3 
Step 4 	Step 5 	Step 6 
Step 7 	Step 8 	Step 9 
Step 10 		

1. Identify: Circle the steps that have the bug
2. Fix: To fix this code, delete step \_\_\_\_

# Field Map Debug #3

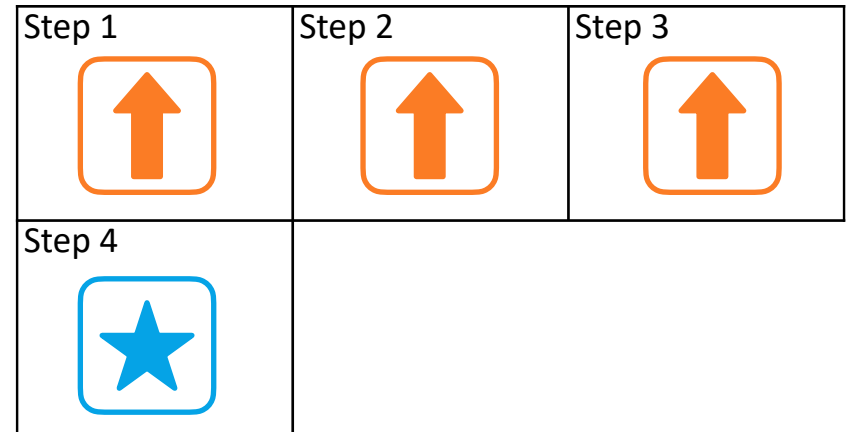
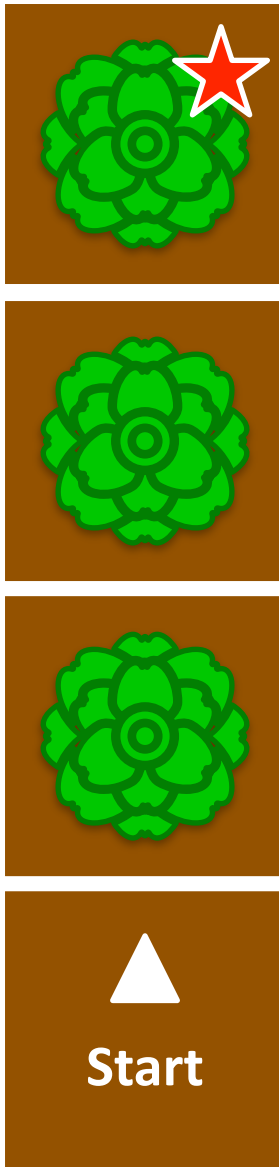


## Buggy Code

Step 1 	Step 2 	Step 3 
Step 4 	Step 5 	Step 6 
Step 7 	Step 8 	Step 9 
Step 10 	Step 11 	Step 12 
Step 13 	Step 14 	Step 15 

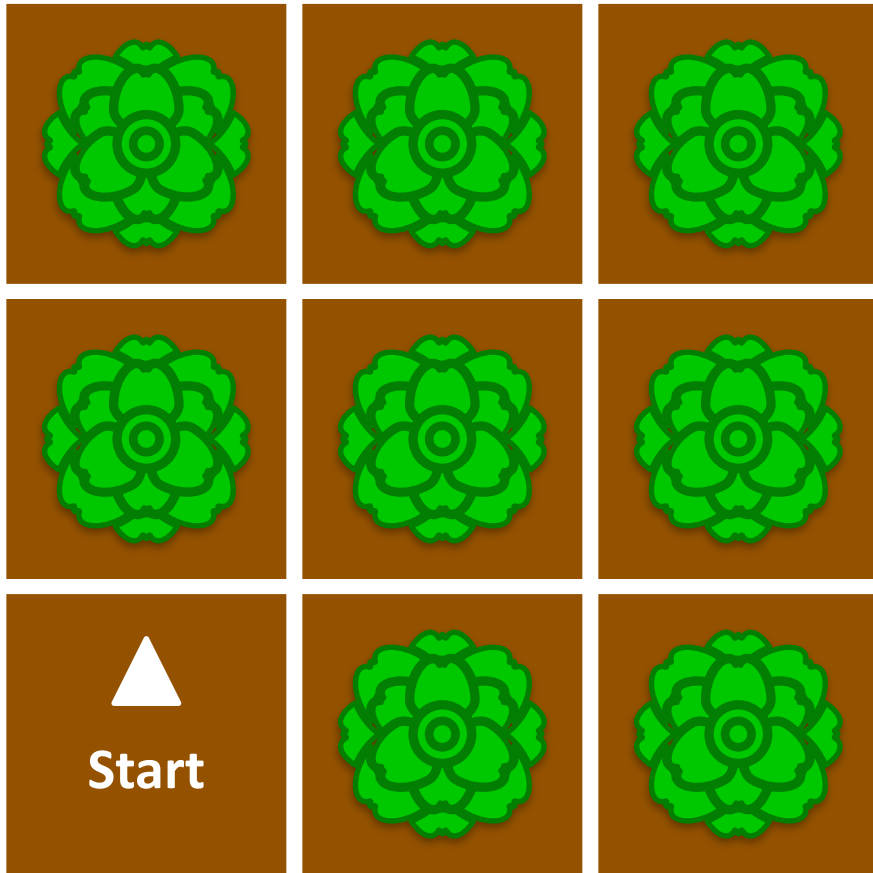
1. Identify: Circle the step(s) that has the bug
  2. Fix: To fix this code, \_\_\_\_\_
-













# Field Map #1 - Possible Solution



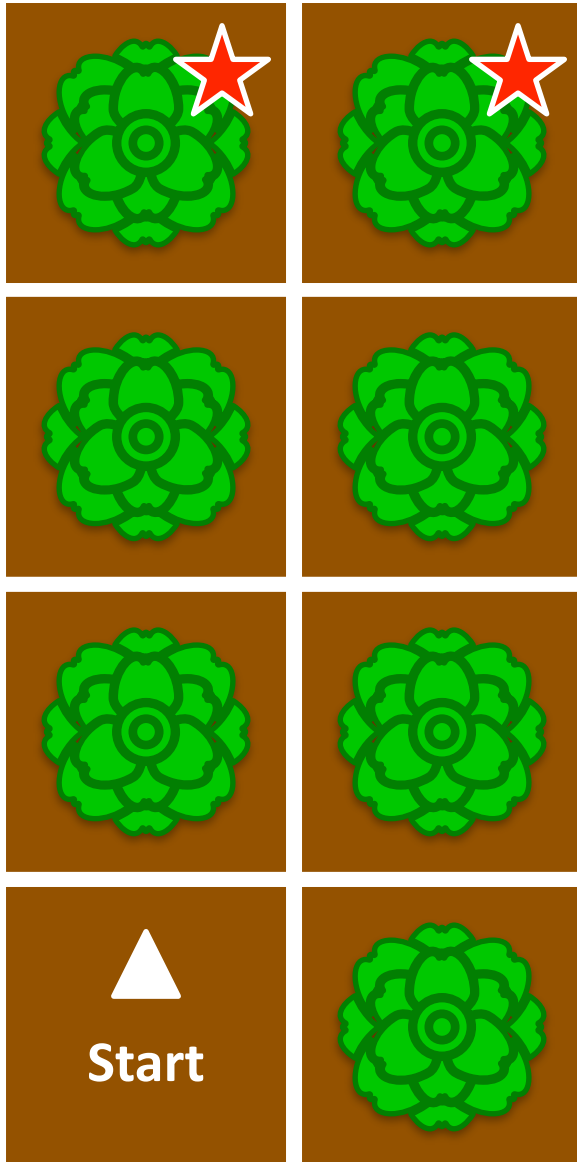













# Field Map #2 - Possible Solution



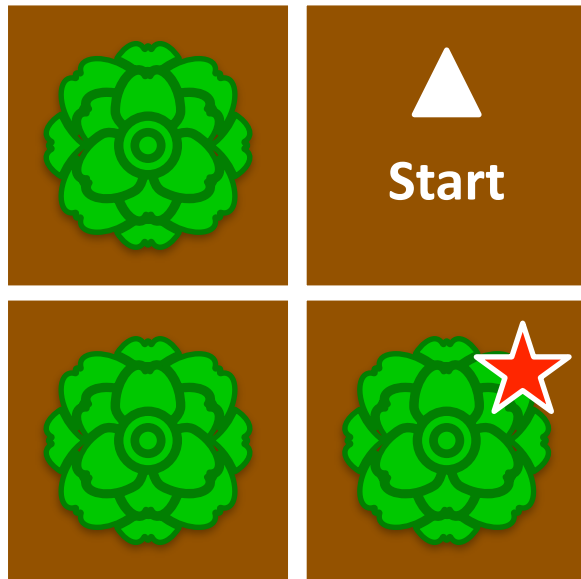
Step 1 	Step 2 	Step 3 
Step 4 	Step 5 	Step 6 
Step 7 	Step 8 	Step 9 
Step 10 	Step 11 	Step 12 

# Field Map #3 - Possible Solution



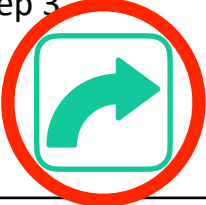






Step 1 	Step 2 	Step 3 
Step 4 	Step 5 	Step 6 
Step 7 	Step 8 	Step 9 
Step 10 	Step 11 	

# Field Map Debug #1 - Solution

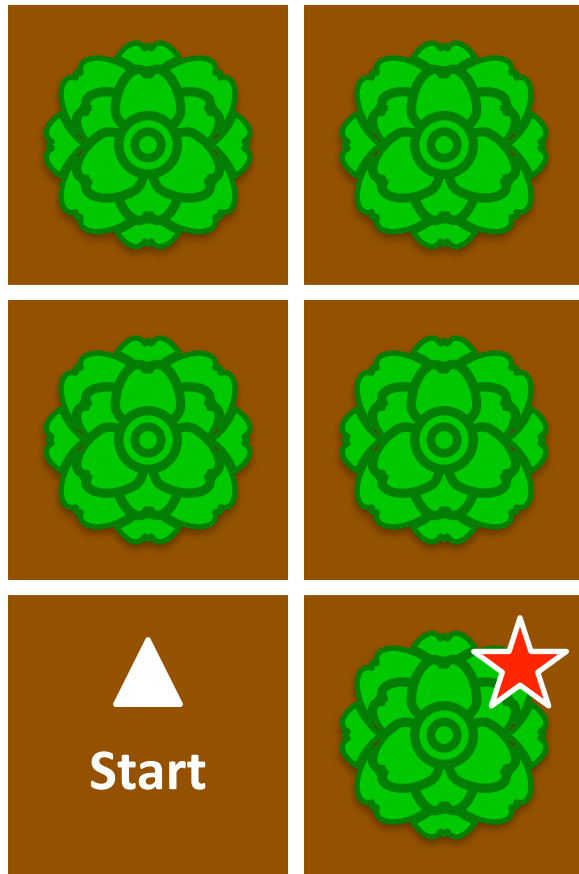


## Buggy Code











Step 1 	Step 2 	Step 3 
Step 4 	Step 5 	Step 6 
Step 7 		

**Fix:** Step 3 should be a left arrow

# Field Map Debug #2 - Solution

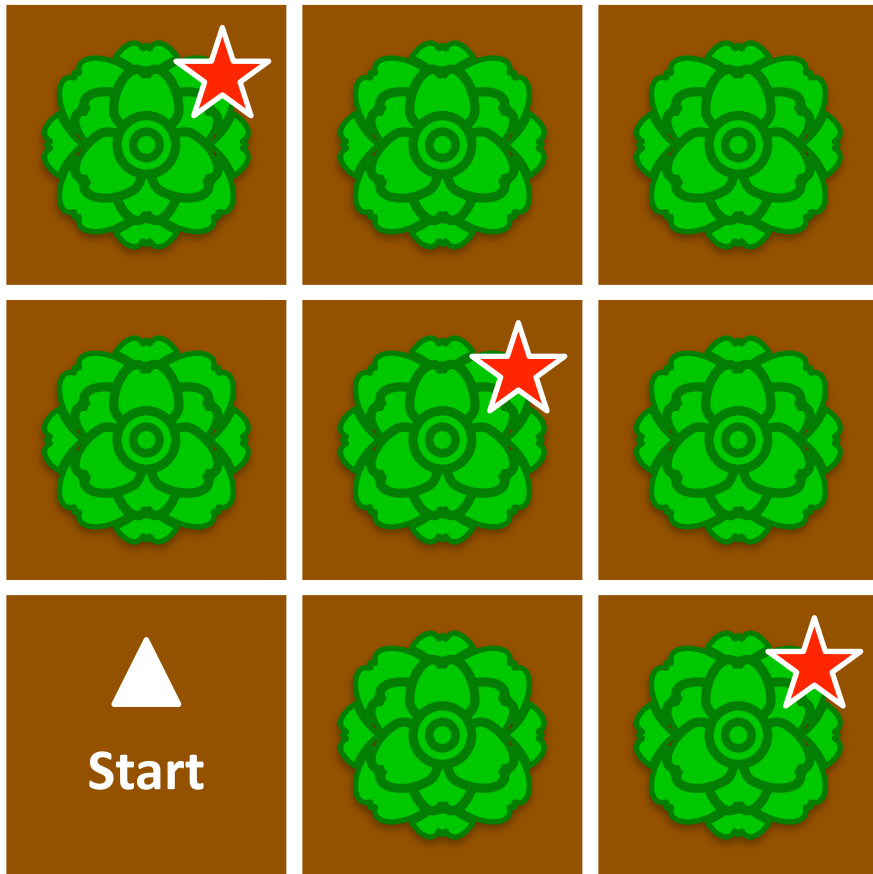


## Possible Solution

Step 1 	Step 2 	Step 3 
Step 4 	Step 5 	Step 6 
Step 7 	Step 8 	Step 9 
Step 10 		

**Fix:** Remove step 7

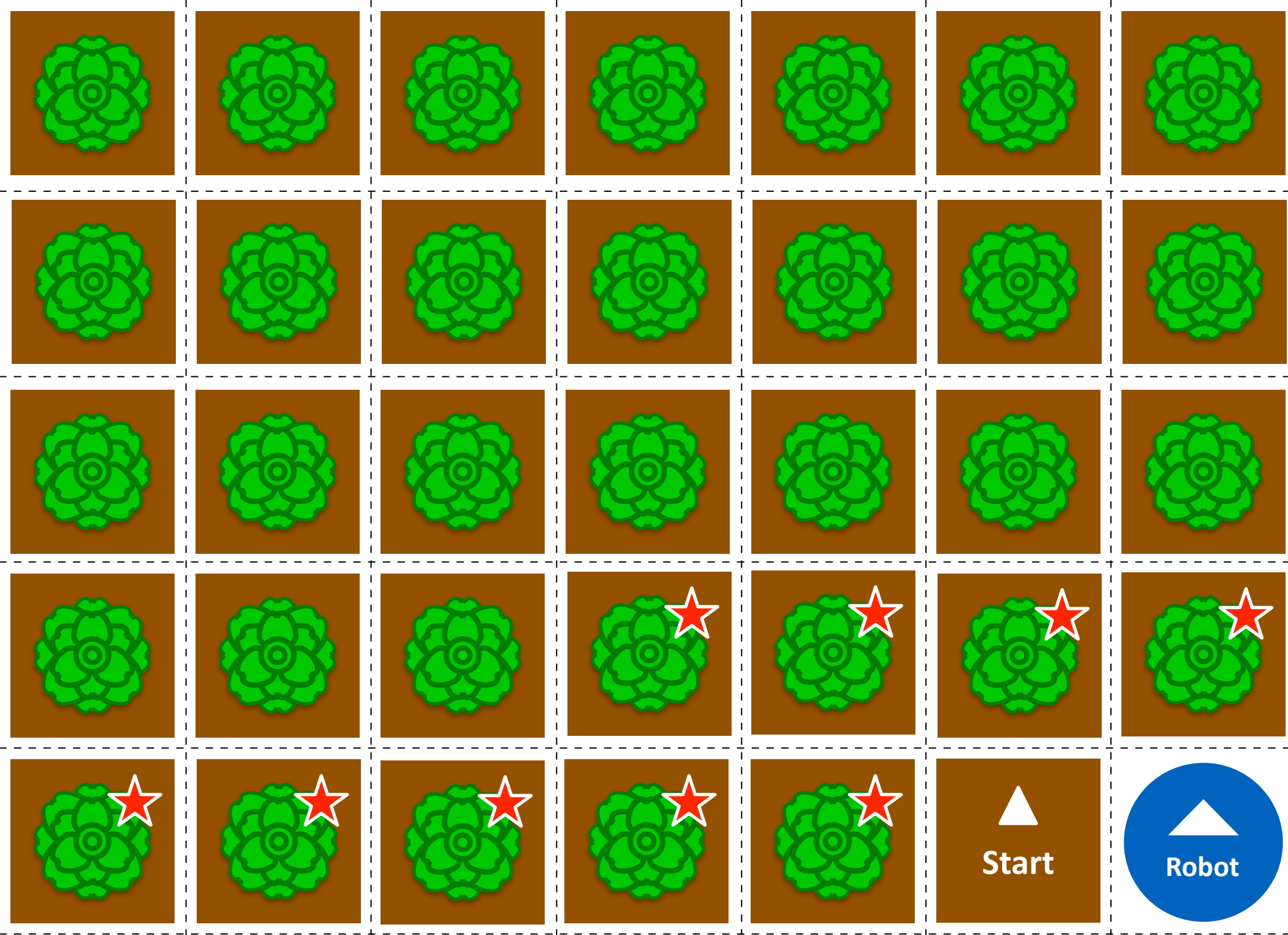
# Field Map Debug #3 - Solution



**Fix:** Step 11 should be forward and step 12 should be star

## Buggy Code

Step 1 	Step 2 	Step 3 
Step 4 	Step 5 	Step 6 
Step 7 	Step 8 	Step 9 
Step 10 	Step 11 	Step 12 
Step 13 	Step 14 	Step 15 



Create your own field maps!

# Unplugged Field Map Cards

Cut along dotted lines